TRANSFUSION—VOLUME 23 (1983)

Subject Index

In the Subject Index, the page numbers refer to the first page of the article in which the subject is addressed rather than the specific page on which the referenced subject can be found. An "L" in parenthesis indicates the subject is found in a letter to the editor; an "E" in parenthesis indicates the subject is discussed in an editorial.

In Volume 23 (1983), Number One (Jan.-Feb.) contains pages 1-86; Number Two (Mar.-Apr.), 87-174; Number Three (May-June), 175-276; Number Four (Jul.-Aug.), 277-364; Number Five (Sep.-Oct.), 365-458; and Number Six (Nov.-Dec.), 459-548.

A

ABO
errors in crossmatch 237
incompatible marrow transplant ..... 80(L), 277
Abortion, and anti-PP_1p^k 350
Acanthocytosis 336
Acquired blood group B 59
Acquired immune deficiency syndrome (AIDS) ..... 87, 459(E)
Acid stromal elution 72, 248
Adenine 8, 54, 484
Adenocarcinoma, auto-anti-A in patient with 339
Adenosine triphosphate, in stored red cells 1, 8, 215, 325, 484
Adsorption, cold agglutinins 328
AET, see 2-aminoethylisothiouronium bromide
AIDS, see acquired immune deficiency syndrome
Agglomeration, frozen cells 313
Aggregation, see platelet aggregation
Alloimmunization
detection off 15
following apheresis 352
to platelets 287
to white cells 15
alpha-galactosidase 244
2-aminoethylisothiouronium bromide (AET) ..... 274(L), 275(L)
Antibodies
anti-A isoagglutinin 237
anti-B isoagglutinin 237
anti-Bg^a 40
anti-Cr^a 167
anti-D^a ..... 91, 248, 352, 363(L), 396
anti-Di^a ..... 80(L)
anti-E 352
anti-formaldehyde ..... 79(L)
anti-Fr^a 394
anti-Ge 114
anti-HBc 523
anti-Jk^b ..... 362(L)
anti-Jk3 ..... 361(L)
anti-JMH 344
anti-K, polybrene test for 152
anti-K:18 258
anti-Kp^b 254
anti-Le^a 274
anti-Lan 256
anti-M 37, 117, 322
anti-N 117
anti-N-like ..... 79(L)
anti-NU ..... 79(L)
anti-PP_1p^k, and early abortion 350
anti-Sl^a ..... 402(L)
anti-Tc^a 124
anti-U ..... 272(L), 273(L), 364(L)
anti-Yt^a 114
anti-Wi ..... 128, 174(L)
auto-anti-A_1 339
auto-anti-N 382
auto-anti-P ..... 79(L)
Lewis ..... 174(L)
Antibody
anti-neutrophil 135
detection 40, 152, 270, 373
elution 72, 300
heterogeneity ..... 364(L)
persistence ..... 362(L)
screen 152, 373, 490
white-cell related 240
Anticoagulant-preservatives
acid-citrate-phosphate (ACD) 1
citrate-phosphate-dextrose (CPD) 8, 215, 484
citrate-phosphate-dextrose-adenine (CPDA-1) 54, 484
citrate-phosphate-dextrose-adenine (CPDA-2) 49
Antigen
acquired B 59
B 244
Cartwright 114
Cromer (Cr^a) 124, 167
depressed expression 65
Diego 65
dosage ..... 361(L)
Hunter 120
Gerbich 114
granulocyte 391
Kell inactivation by AET ..... 274(L), 275(L)
K (K1) 336
Kp^c 254
Mi^y / Mi^k 33
'N' 382
red cell, stability during storage 49
Rh determination 67
Te^a 124
Tk ..... 271(L)
Tm 120
U ..... 272(L), 273(L)
Antiglobulin test 152, 240, 300, 394
Anti-lymphoctye globulin 396
Antiserums, IgG subclass 398
Antithrombin-III ..... 271(L)
Apheresis
calcium changes in donors 471
leukocytes (granulocytes) collected by 197, 201, 358, 500
membrane separators 143
monocytes collected by 387
plasma collected by 290
plasma volume in 355
platelets collected by 99, 177, 182, 190, 197
stem cells collected by 500
therapeutic 535
therapeutic cytapheresis 526
therapeutic plasma exchange with ..... 62, 271(L), 277, 352, 369
Assay
anti-HBc 523
capillary tube antiglobulin 240, 398
control for platelet-associated IgG 516
ELISA, see enzyme-linked immunoassay
monocyte-macrophage phagocytosis 322
HBsAg 45, 523
neutrophil-associated complement 131
protoporphyrin/heme, in iron deficiency 226

ATP, see adenosine tripophate
Authors, detailed instructions for 83
Autoagglutinins 328
Autoanalyzer 155
Authors' detailed instruction 83
Autologous tranfusion 87, 229
Automated blood grouping ..... 173(L)

B

BANA, see Bridge anticoagulant neutralizing agent
B antigen loss 244
Baboon, red cells 215
Blood
  collection ..... 82(L), 325
  filtration 25, 30, 95, 310, 460
  glycosylation during storage 11
  inventory management ..... 54, 81(L), 490
  leukocyte-poor/depleted 30, 95
  microaggregates ..... 25, 95, 310, 460, 537(L)
  storage ..... 1, 8, 49, 54, 82(L), 207, 215, 325, 484
  utilization, in hysterectomy 490
Blood bags 207, 263, 294
Blood bank
  computer 316
  management 54
  training 365
  workload ..... 81(L)
Blood cooling, effect of 342
Blood donors, see donors
Blood groups
  acquired B 59
  Kidd ..... 362(L)
  Lutheran ..... 174(L)
  McLeod 336
  MN 120
  Rh determination 67
Blood preservation, see blood storage
Blood processors, see cell separators
Blood storage (see also, red cell storage) 377, 484
Blood substitute 158, 512
Bone marrow
  as a source of granulocytes 496
  transplantation ..... 80(L), 277, 500
Bridge anticoagulant neutralizing
    agent (BANA) 533
Brown recluse spider 233
Burst-forming unit-erythroid (BFU-E) 248

C

C3, changes in cardiopulmonary bypass 476
Calcium
  changes in apheresis donors 471
  during apheresis 535
Capillary tube antiglobulin test 240
Cardiopulmonary bypass, plasma changes in 476
Cardiovascular surgery, cold agglutinin in ..... 363(L)
Cell panels 270
Cell separators 62, 99, 177, 182, 190, 197, 201, 260, 387, 504
Cellular residues in fresh-frozen plasma ..... 68, 402(L)
Centrifugation
  index 252
  times 68, 252
  donor hematocrits 75
Chemotaxis, granulocyte 20
Citrate, see anticoagulants
Clostridium sporogenes 244
Coagulation factors
  in platelet concentrates 480
  VIII ..... 265, 271(L), 377, 533
  inhibitor 62
  storage 49, 377
Coffee bean alpha-galactosidase 244
Cold autoagglutinins ..... 328, 363(L)
Collection of blood, multiple bags for ..... 82(L)
Colony-forming unit-culture (CFU-C) 500
Colony-forming unit-erythroid (CFU-E) 248
Cooling, effect of 342
Compatibility testing
  effect of streptokinase on ..... 405(L)
  manual with polybrene 152
Complement
  activation by membranes 143
  during cardiopulmonary bypass 476
  neutrophil-associated 131
Computers, blood bank 316
Contributors,
    notice to ..... No. 1, 16A; No. 2, 17A; No. 3, 17A; No. 4, 17A; No. 5, 26A; No. 6, 16A
Cord serum, IgG in ..... 274(L)
CPD, CPDA-1, CPDA-2, CPDA-3, see anticoagulant
Creatinine phosphate, in McLeod blood group 336
Crossmatch, room temperature 237
Groupamatic-360 ..... 362(L)
Cryoprecipitate 265
Cryopreservation
  granulocytes 508
  monocytes 387
Cryoprotectants
  DMSO 109, 508
  glycerol 213, 313
Cryptantigen Tk ..... 271(L)
Cytapheresis, see cell under apheresis
Cytotoxicity 391

D

Detailed instructions for authors 83
Diethylhexylphthalate (DEHP) 49, 99
2,3-diphosphoglycerate (2,3-DPG),
    in stored red cells 1, 215, 325, 484
Dimethyl sulfoxide (DMSO) ..... 109, 405(L)
DLA 15
Donor
  autologous 87, 229
  depressed antigen expression 65
  HBsAg in 346
  high-risk 229
  HLA antibody screening 268
  iron stores in 221, 226
  lichen planus in 531
  rejection of 75
  screening, mass for rare blood groups ..... 362(L)
Dosage effects ..... 361(L)
DMSO, see dimethyl sulfoxide
D^u
  terminology ..... 89(E), 401(L)
  variant ..... 89(E), 91, 401(L)

E

EIA, see enzyme-linked immunoassay
ELAT, see enzyme-linked immunoassay
ELISA, see enzyme-linked immunoassay
Elution
  acid stromal 72, 248
  technique comparison 300
Enzyme-linked immunoassay
  antiglobulin test (ELAT) 300
  HBsAg (ELISA) 45
  immunoabsorbant (EIA) 305, 361
Epstein-Barr virus (EBV) 331
Exchange resin, in red cell preservation 215

F

Factor VIII
associated with BANA 533
following therapeutic apheresis .... 271(L)
in hemophilia A 265
inhibitor 62
Ferritin, donor levels 221, 226
Fetal blood group determination 67
Fetal hemoglobin, persistence of 530
Fetal-maternal hemorrhage
treatment .... 89(E)
detection ....401(L), 530
Fibrinogen, in platelet concentrates 480
Fibronectin, effect of cardiopulmonary bypass on 476
Ficoll gradient in stored blood .... 539(L)
Filters, microaggregate
adherence 30, 460
depth 25, 30, 460
neonatal patients, use in ....89(E), 170, 460, 537(L)
screen .... 25, 460, 537(L)
Forb lectins 519
Fresh-frozen plasma
cellular residues 68
in plasmapheresis 139
Frozen red cells 313

G

Gene
En^a 33
In (Lu) 65, 128
Mi^v/*Mi*^{k} 33
MsHe/*MS*^{u} 382
Xk 336
Genotype
Kp^c/*Kp*^{o} 254
Glycerol, estimation of 313
Glycosylation, blood proteins 11
Granulocyte
allommunization 15, 391
chemotaxis 20
collection, ... 342, 358, 496
cryopreservation 508
filtration 25
function 20, 504, 508, 512
gradient separation, ineffective when .... 539(L)
migration 20, 504
specificities 391
storage 20, 508
transfusion
into dogs 15
into man 20, 25, 504

H

Hairy cell leukemia, therapeutic cytapheresis in 526
HDN, see hemolytic disease of the newborn
Hematocrit, errors in donors 75
Hematofluorometry 226
Hemodialysis, anti-NU associated with .... 79(L)
Hemoglobin
P50 .... 1, 158, 484
stroma-free 158
Hemolysis, due to
dimethysulfoxide .... 406(L)
anti-M 322
auto-anti-P .... 79(L)
Hemolytic disease of the newborn (HDN)
due to
anti-D 91
anti-Lan 256
anti-U .... 273(L)
maternal self-injection 348
in D^u variant ....89(E), 91
Hemolytic transfusion reaction, see transfusion reactions
Hemophilia A 265, 533
Hemolytic-uremic syndrome 139
Henshaw determinant 382
Hepatitis B surface antigen (HBsAg)
epidemiology in India 346
immunoassay, enzyme-linked 45
test combined with test for anti-HBc 523
HLA
antibodies 240, 268
genetic linkage 394
matched platelets 287
Hydroxyethyl starch 531
Hypocalcemia, during therapeutic apheresis 535
Hypothermia, transfusion during 37
Hysterectomy, blood use associated with 490

I

IgG, see immunoglobulin G
Immune serum globulin 363
Immunoassay
enzyme-linked
antiglobulin 300
HBsAg 45
microtiter immunoabsorbant 305
Immunofluorescence, indirect 15
Immunoglobulin G
effect of cardiopulmonary bypass on 476
following spider bite 233
in cord serum .... 274(L)
platelet-associated 516
subclasses
crossing placenta .... 81(L)
specificity 114
typing serums 398
Incompatibility
associated with spider bite 233
bone marrow transplantation ....80(L), 277
Inhibition by urine .... 404(L)
Inhibitor, Factor VIII 62
In(Lu) gene .... 65, 128, 174(L)
Intravenous
dimethylsulfoxide causing hemolysis .... 405(L)
immune globulin .... 363(L)
Instructions to authors, detailed 83
Inventory management 54, 316, 490
Iron, donor stores 221, 227
Irradiation of platelets 106

K

Koebner's phenomenon, in lichen planus 531
Kidd blood group .... 362(L)
Kp^c/*Kp*^{o} 254

L

Lan, segregation of 256
Lectin
peanut .... 271(L), 403(L)
range forb 519
Leukocyte, see granulocyte
Leukocytapheresis, see also under apheresis 197, 500
Leukoagglutinins 30
Leukocyte-poor/depleted blood 30, 95, 260
Lichen planus 531
LISS, see low-ionic-strength solution
Low-ionic-strength solution/salt (LISS)
crossmatch 237
enzyme method 373
hemolysis in .... 80(L)
LISS-PVP 152, 155
Loxosceles reclusa 233
Lupus-like syndrome 135

Lutheran blood group ..... 174(L)
Lymphocytes
alteration in Guillain-Barré syndrome 369
collection 201
function 201

M

Marrow, incompatible transplantation ..... 80(L), 277
Massive transfusion ..... 404(L), 460
Maternal self-injection of blood 348
McLeod syndrome 336
Mi^{a} / *Mi*^{k} 33
Membranes
plasma separator 143
red cell, see red cell membranes
Microaggregate filters ..... 25, 30, 89(E), 95, 310, 460, 537(L), 538(L)
Miltenberger, see under antigen
Monocytes
collection ..... 201, 387, 539(L)
cryopreservation 387
function 201, 387
MNS system 33, 37, 120
Multiple bag systems ..... 82(L)

N

N-acetylneuraminic acid (NeuNAc) 117
Neonatal patients
granulocyte preparation for 358
positive direct antiglobulin test in 394
potassium following transfusion of 163
microaggregate filters for ..... 89(E), 170, 460, 537(L)
transfusion of placental blood to 325
Neuraminidase 117
Neutrophil, see granulocyte
Newborns (see also neonatal patients) 165, 394
Nomogram for plasma volume 355
Notice to contributors ..... No. 1, 16A; No. 2, 17A; No. 3, 17A; No. 4, 17A; No. 5, 26A; No. 6, 16A

O

Ovalocytosis 65
Oxypherol, see perfluorochemicals

P

Parathormone, in apheresis donors 471
Parathyroid response, during apheresis 535
Passive immunization, anti-D ..... 363(L)
Pathology resident training 365
Peanut lectin ..... 271(L), 403(L)
P50 of hemoglobin 1, 158, 215, 325, 484
Perfluorochemicals, effects on leukocytes 512
Phosphate, ion exchange 215
Phosphoenolpyruvate, red cell storage 1
Placenta
blood collected from 325
IgG crossing ..... 81(L)
Plastic blood containers 49, 207, 294
Plasma
cellular residues ..... 68, 402(L)
coagulation factors during storage 377
Plasma exchange, avoidance of (see also apheresis) ..... 363(L)
Plasmapheresis (see also apheresis) 139, 290
Plasma volume nomogram 355
Platelet
aggregation 99, 109
arachidonic acid metabolism 106
concentrate
coagulation factors in 480
collection by apheresis 99, 177, 182, 190, 197, 290
pH ..... 78(L), 99, 207, 263
pooling 70
preparation, centrifugation 252
storage ..... 78(L), 99, 207, 263, 294
cryopreservation 109, 213
HLA-matched 287
irradiation 106
metabolism 106, 109
survival 207, 213, 290, 294
transfusion 207, 287
Plateletapheresis 99, 177, 182, 190, 197
Platelet-associated IgG 516
Platelet-poor plasma 252
Polyagglutination 59, 99
Polybrene 152
Polymerized hemoglobin 158
Polyolefin 49
Polyvinyl chloride (PVC) 49, 294
Pooling of platelets 70
Post-perfusion syndrome 331
Potassium, following transfusion 163
Pregnancy
anti-Di^{a} in ..... 80(L)
termination 67
Propylthiouracil 135
Proteins, blood and plasma 8, 11
Pyridoxylation of hemoglobin 158

Q

Queue, manuscript ..... 175(E)

R

Range forb lectins 519
Red cell
automated grouping 173
frozen 313
incompatible, transfusion of ..... 402(L)
loss during filtration ..... 538(L)
membrane
alteration by AET ..... 274(L), 275(L)
anomaly 65
hybrid sialoglycoprotein 33
protein 248
minor population quantitation 155
outdating 54
rabbit, adsorption with 328
rejuvenation 1
storage 1, 8, 49, 215, 484
survival
^{51}Cr-labeled 8, 37, 40, 148, 167, 215, 244, 258, 322, 346
^{99m}Tc-labeled 148
washed 8, 313
Rh, determination 67
Rh immune globulin, prophylaxis with ..... 67, 90(E)
Resident training 365
Rosette test, for fetal–maternal hemorrhage ..... 401(L)

S

Scleroderma ..... 271(L)
Self-injection of blood 348
Shelf-life, banked blood and plasma 377
Sialoglycoprotein (SGP),
red cell membrane 33, 117, 120, 382
Sickle cell trait 530
Soluble antigen 124
Steroids, in factor VIII inhibitor 62
Streptokinase, effect of serology studies ..... 405(L)
Stroma-free hemoglobin 158
Surge pump technique 177, 182
Survival, see red cell and platelet
Syndrome
hemolytic-uremic 139

Guillain-Barré 369
McLeod 336
post-perfusion, due to EBV 331

T

Technetium-99m (^{99m}Tc) elution 148
Terminology, D^u ..... 89(E), 401(L)
Tetrahydrofurfuryl oleate 294
Th, Tk polyagglutination 59
Thromboxane 106
Training, pathology residents 365
Transfusion
granulocyte 15, 20, 25, 504
hypothermia during 37
incompatible red cells ..... 402(L)
massive, following trauma ..... 404(L)
platelet 207, 287
potassium following red cell 163
Transfusion reactions
febrile ..... 30, 95, 538(L)
hemolytic ..... 40, 322, 364(L)
Lewis antibodies ..... 174(L)
mimicked by drug-induced hemolysis ..... 405(L)
neonatal ..... 89(E), 170
Transplantation, marrow ..... 80(L), 277
Type and screen 490

U

Urine, inhibition by ..... 405(L)

V

Volume, ^{125}I-labeled albumin measurement of blood 8

W

West Indians, U antigen among ..... 272(L)
Workload, staffing for ..... 81(L)

X

Xk genes 336
X-linkage 336